

Abstract

Methods and Modified Cells for the Treatment of Cancer

5 The present invention provides methods of preventing and/or treating cancers
(including tumors). In one preferred embodiment, the invention is practiced to induce
regression of an existing cancer or tumor and/or to prevent metastasis and/or to
prevent growth of metastatic nodules. In other preferred embodiments, the invention
may be used as a prophylaxis to prevent the development of primary cancers through
a childhood or adult vaccination program against specific tumor antigens for cancers
with high incidences. In an alternate preferred embodiment, the present invention
10 provides methods of establishing an immune response against a universal artificial
tumor antigen through a childhood or adult vaccine program, thus providing a long-
term immune response that can be utilized at any point to treat any cancer which
develops later in life. The present invention also provides cancer and tumor cells
stably expressing an artificial antigen, preferably an artificial cell-surface antigen.